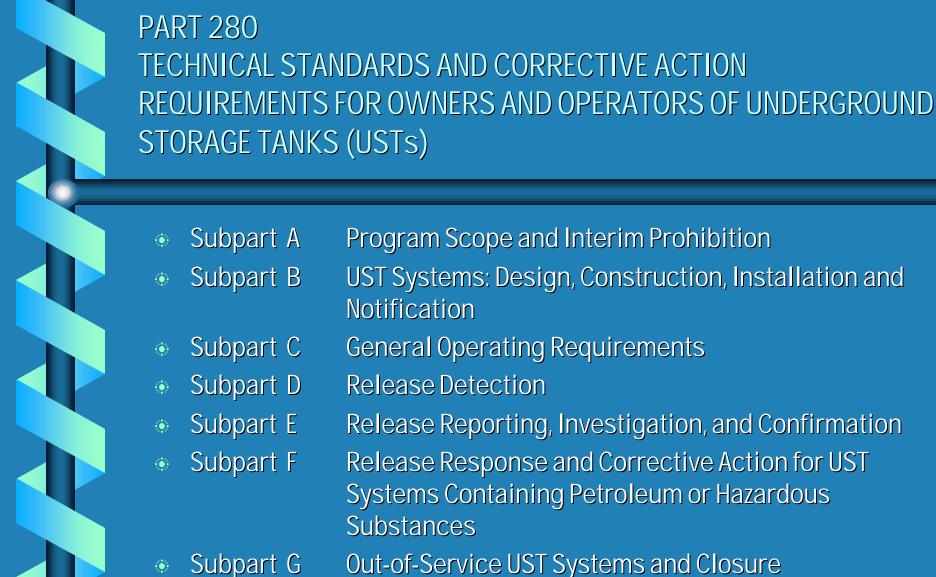
USTS

Summary of Federal Regulations for Underground Storage Tank Systems



Financial Responsibility

Lender Liability

Subpart H

Subpart I

Subpart A: Program Scope and Interim Prohibition

Exceptions: Tank used for storing heating oil for consumptive use on the premises where stored.

Deferrals: Leak detection does not apply to any UST system that stores fuel solely for use by emergency power generators.

Vehicle Maintenance Facilities: Must follow all rules

Subpart B: UST Systems: Design, Construction, Installation and Notification

All regulated tanks must be registered with State

Upgrading: Deadline - Dec 22, 98

Protected against corrosion

Spill prevention

Overfill prevention

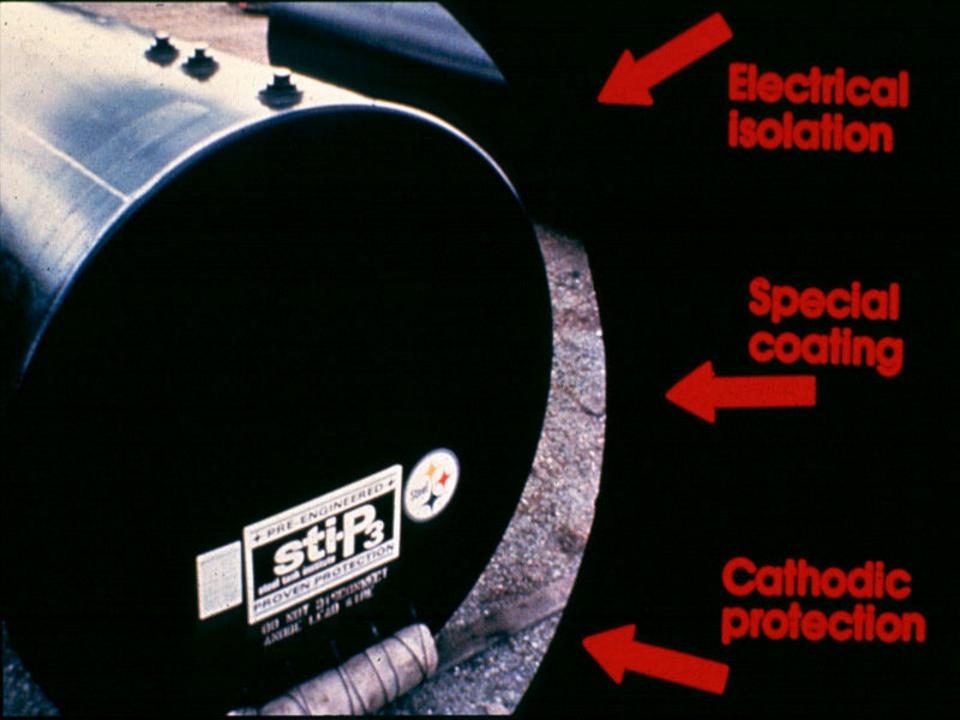
Corrosion Protection

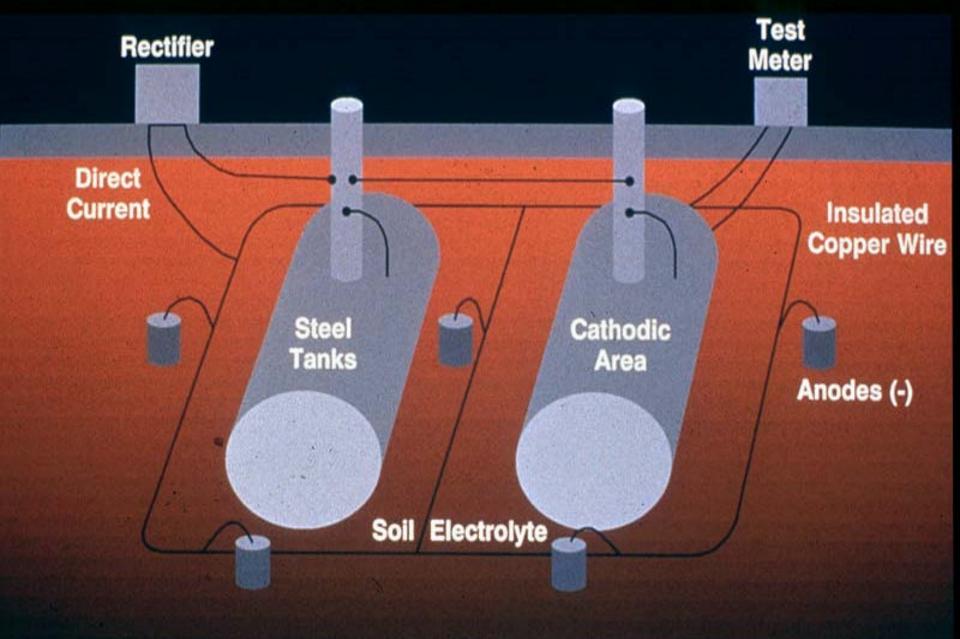
Many Releases come from USTs damaged by corrosion

Tank and piping need corrosion protection









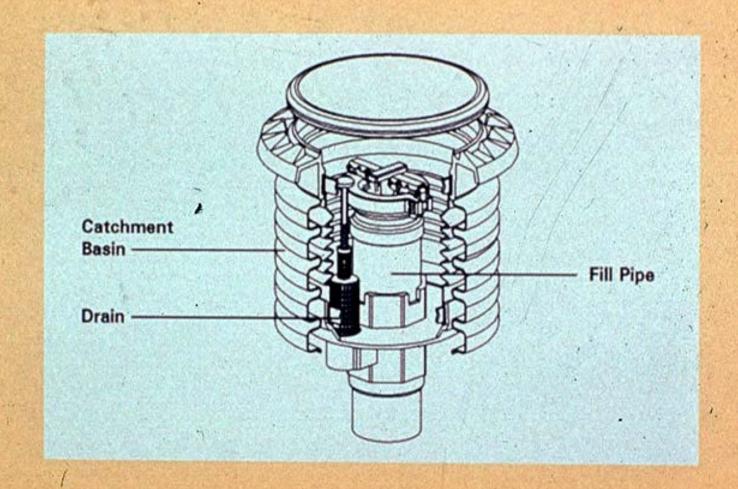
Cathodic Protection Employing Impressed Current

Spill Protection

Use good filling practices to avoid the delivery mistakes that cause spills AND

Add a spill bucket to each UST to catch spills

Spill Bucket

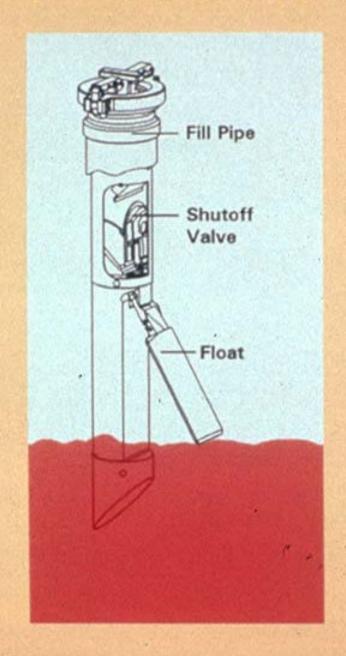


Overfill Protection

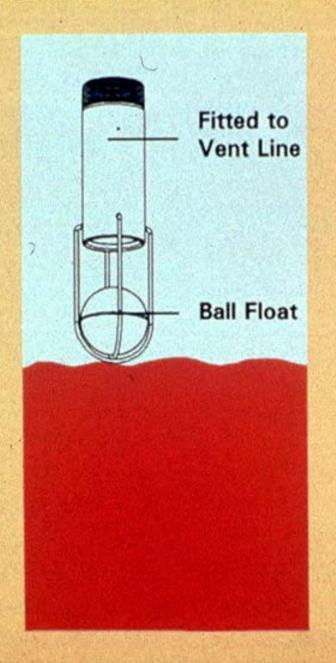
Use good filling practices to avoid the delivery mistakes that cause overfills AND

Add overfill protection equipment

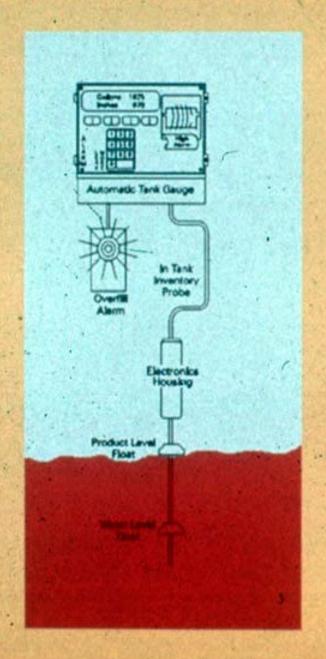
Overfill Device



Overfill Device



Overfill Device



Subpart D Release Detection

Tanks: Must be monitored at least every 30 days for releases one of the approved methods

• Tanks less than 2K - MTG

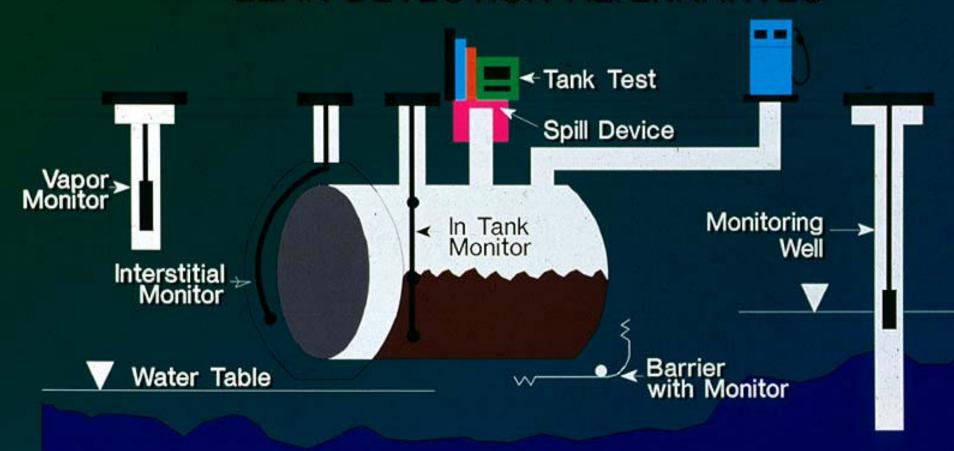
Piping: Must be monitored for releases in a manner that meets one of the following requirements:

(1) Pressurized piping must be equipped with an automatic line leak detector and have an annual line tightness test or conduct monthly monitoring (LLD must be function tested on an annual basis)

(2) Suction piping must be line tightness tested every three years or use a monthly monitoring method

(3) Safe suction piping requires no release detection

LEAK DETECTION ALTERNATIVES





DI FUNCTIONS NORMAL

ALARM

WARNING

POWER





1450:

Environmental A Inventory Management hashed

Subpart D Release Detection

Tanks: Must be monitored at least every 30 days for releases one of the approved methods

Tanks less than 2K - MTG

Piping: Must be monitored for releases in a manner that meets one of the following requirements:

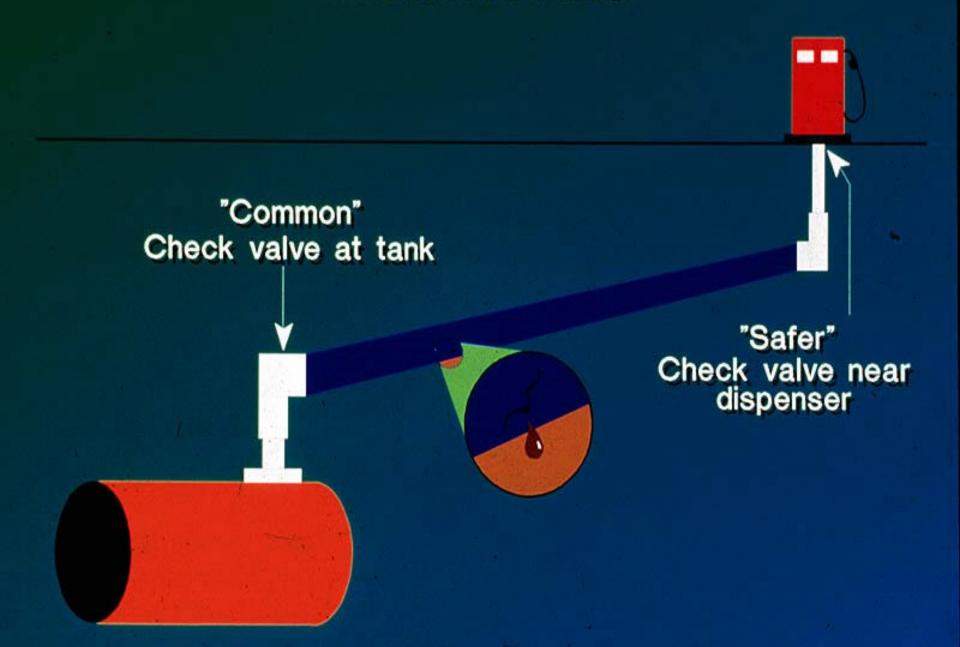
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(2) Suction piping must be line tightness tested every three years or use a monthly monitoring method

(3) Safe suction piping requires no release detection



SUCTION PIPING





Subpart ERelease Reporting, Investigation, and Confirmation

Owners must report to the implementing agency within 24 hours:

- a) any indication of a release
- b) unusual operating conditions
- c) sudden loss of product in UST system
- d) unexplained presence of water in tank

Owners must immediately investigate and confirm all suspected releases within 7 days



Tanks: Last 12 months of release detection results

Last tank tightness test (IC)

Piping: Last 12 months of release detection results

Last line tightness test

Last function test on line leak detector

Upgrading: Tank structural assessment

Tank lining certificate

Cathodic protection design and as-built drawings

Cathodic Protection:

Financial Responsibility:

Records must be kept at the UST site and immediately available for inspection or at an alternative site and provided for inspection upon request.

Record Keeping

 Cathodic protection must be tested within 6 months of its installation and every 3 years thereafter

• Keep results of the last 2 cathodic protection tests

Recording Keeping

In addition, impressed current systems must be inspected every 60 days to make sure the equipment is running properly

Keep results of the last 3 equipment inspections

Record Keeping

Tanks: Last 12 months of release detection results

Last tank tightness test (IC)

Piping: Last 12 months of release detection results

Last line tightness test Last function test on line leak detector

Upgrading: Tank structural assessment

Tank lining certificate

Cathodic protection design and as-built drawings

Cathodic Protection:

Financial Responsibility:

Records must be kept at the UST site and immediately available for inspection or at an alternative site and provided for inspection upon request.

Contacts

- Iowa Approved State
 - Iowa Department of Natural Resources
 - Jim Humeston (515)281-8135
 - EPA Alan Hancock (913)551-7647
- Kansas Approved State
 - Kansas Department of Health & Environment
 - Tom Winn (913)296-1678
 - EPA Bjorn Brinkman (913)551-7761

Contacts

- Missouri Unapproved State
 - Missouri Department of Natural Resources
 - Fred Hutson (573)751--6822
 - EPA Jim Clemenson (913)551-7218
- Nebraska Approval in process
 - Nebraska Department of Environmental Quality
 - UST: Clark Conklin (402) 471-9465
 - LUST:David Chambers (402)471-4230
 - EPA Linda Garwood (913)551-7268

Contacts

- **EPA Tribal Contacts**
- UST: Ed Wakeland (913)551-7806
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